



Title: Improved Article with Lubricated Surface and Method  
Inventors: Vinay G. Sakhrani, Joel L. Williams, Charles Tomasino, and Paul M. Vernon, Jr.  
Attorney and Contact: David P. Hendricks, Reg. No. 53,014, (919) 831-1845, Docket No. TFR-001  
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**10 cc Plastic Syringes, 10% Fomblin M100  
Infusion Rate 1 cc/min**

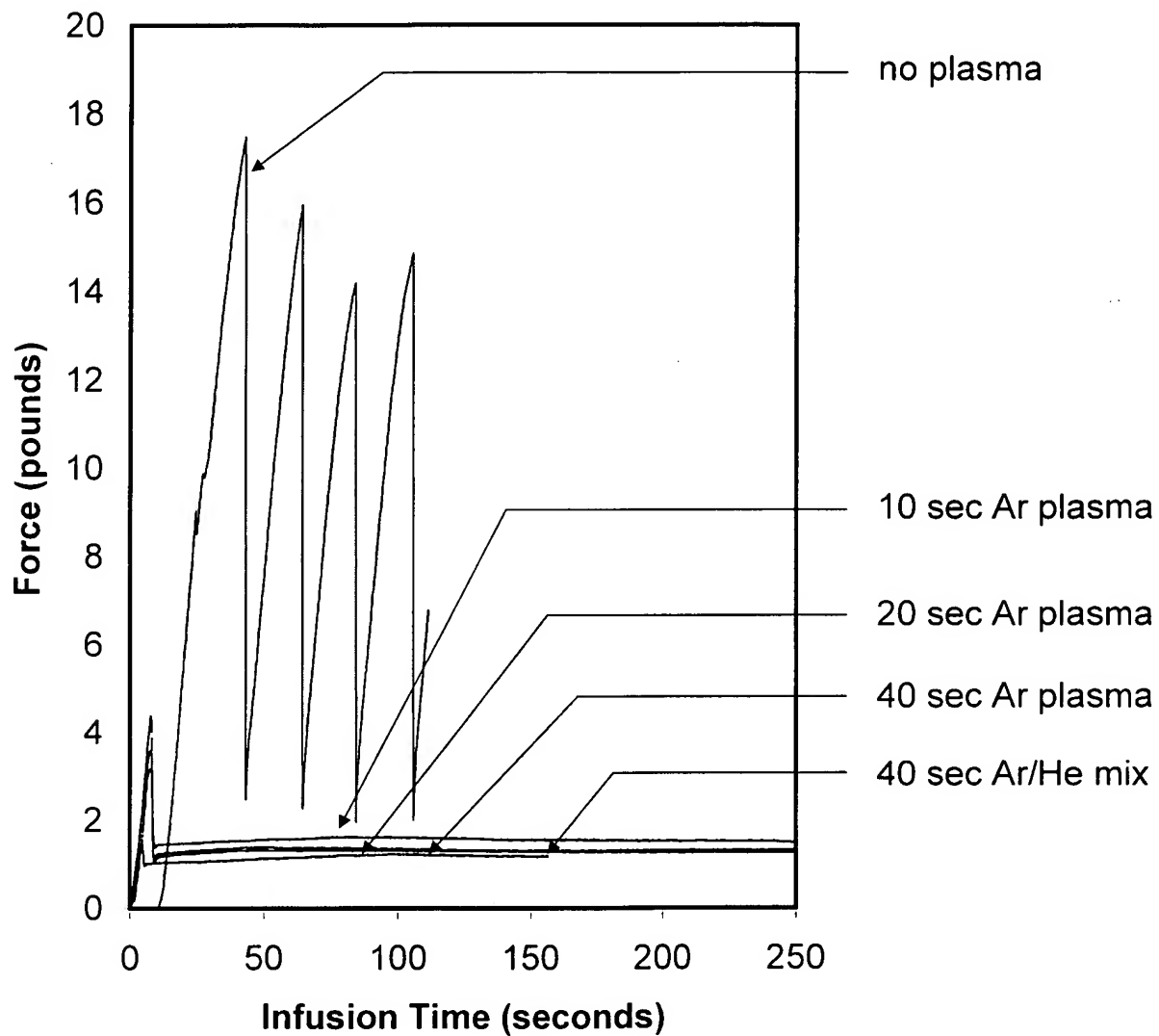


FIG. 1



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**10 cc Plastic Syringes, 10% Fomblin M100  
Infusion Rate 1 cc/min**

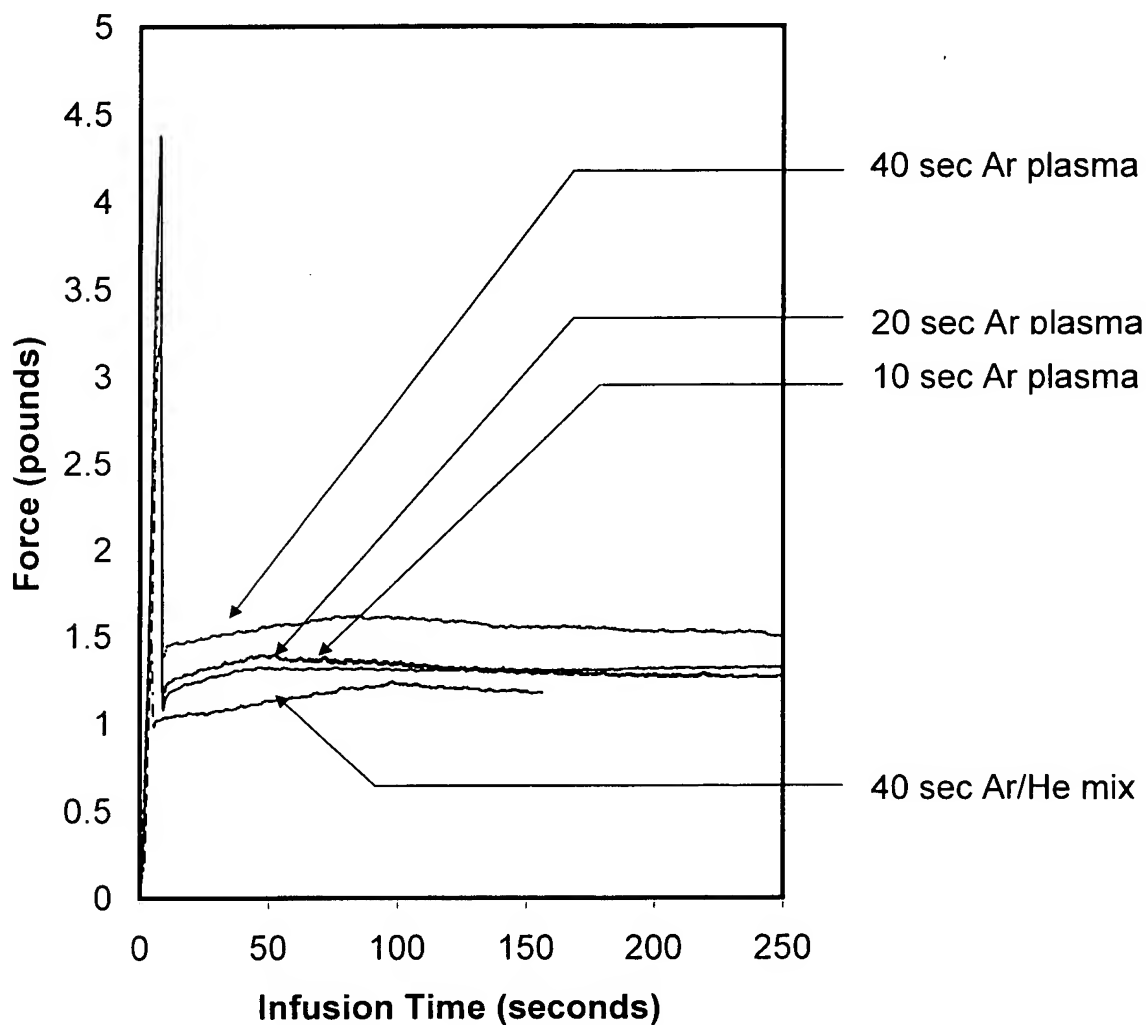


FIG. 2



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**10 cc Plastic Syringes, 10% Fomblin M30  
Infusion Rate 3 cc/min**

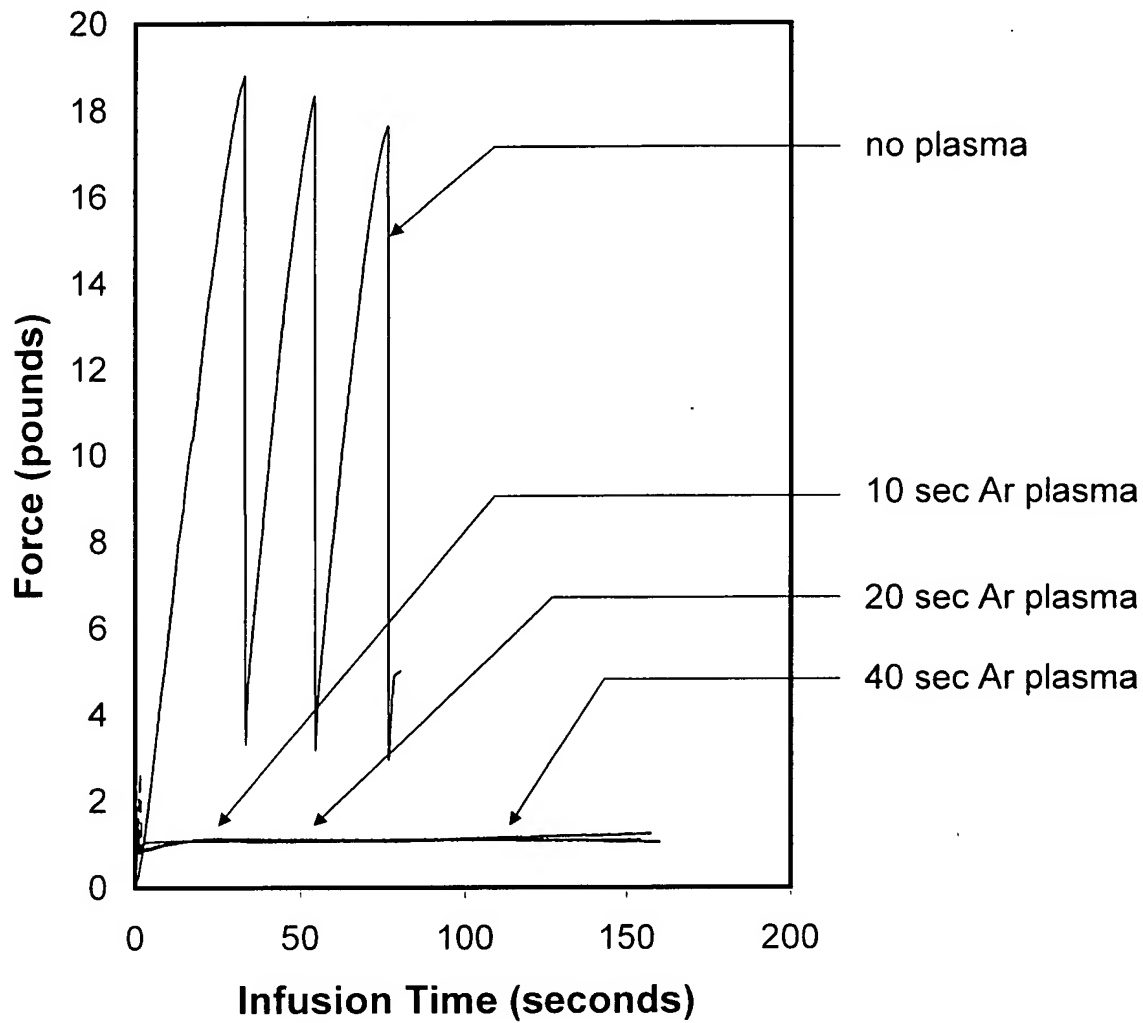


FIG. 3



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**10 cc Plastic Syringes, 5% Fomblin YR  
Infusion Rate 1 cc/min**

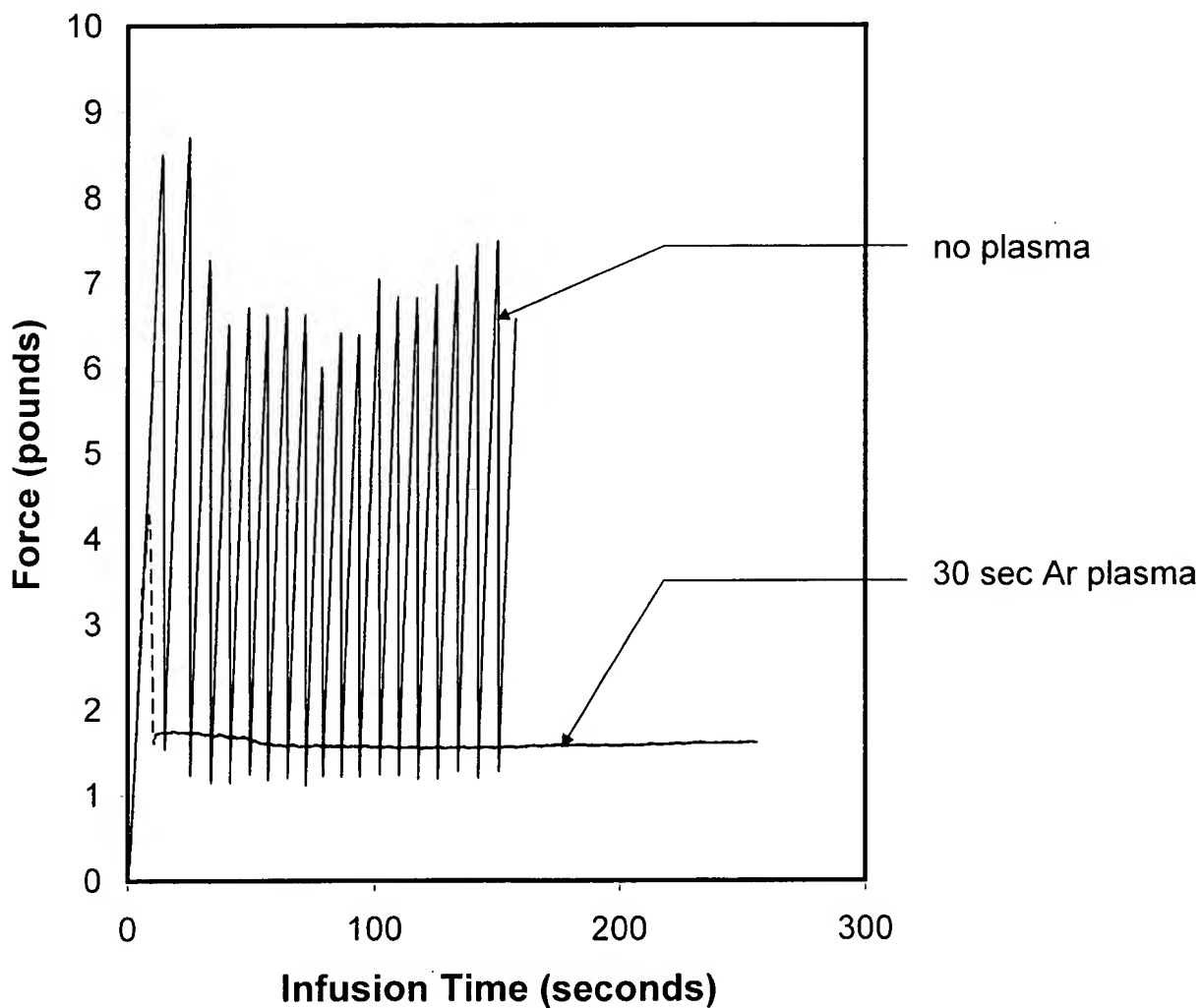


FIG. 4



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**10 cc Plastic Syringes, 10% Fomblin M100  
1 Week Parked**

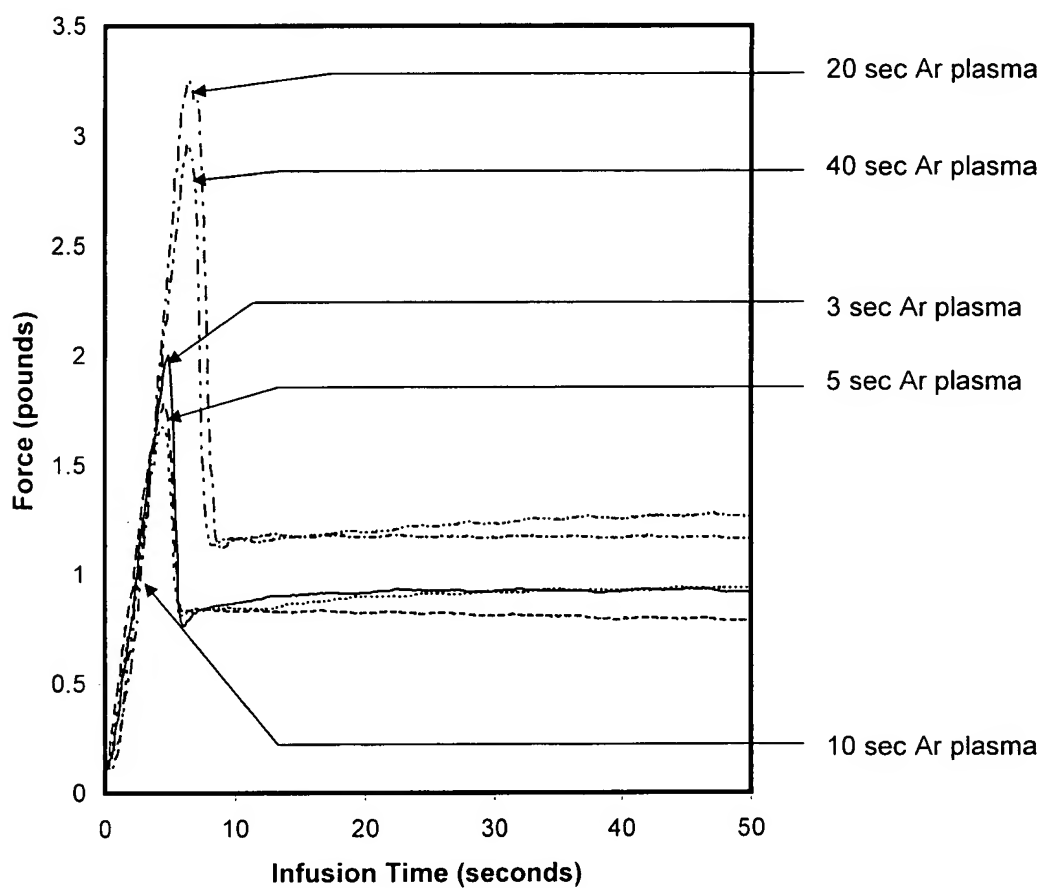


FIG. 5



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### Break-out Force and Sliding Force for Various Argon Atmospheric Plasma Treatment Times

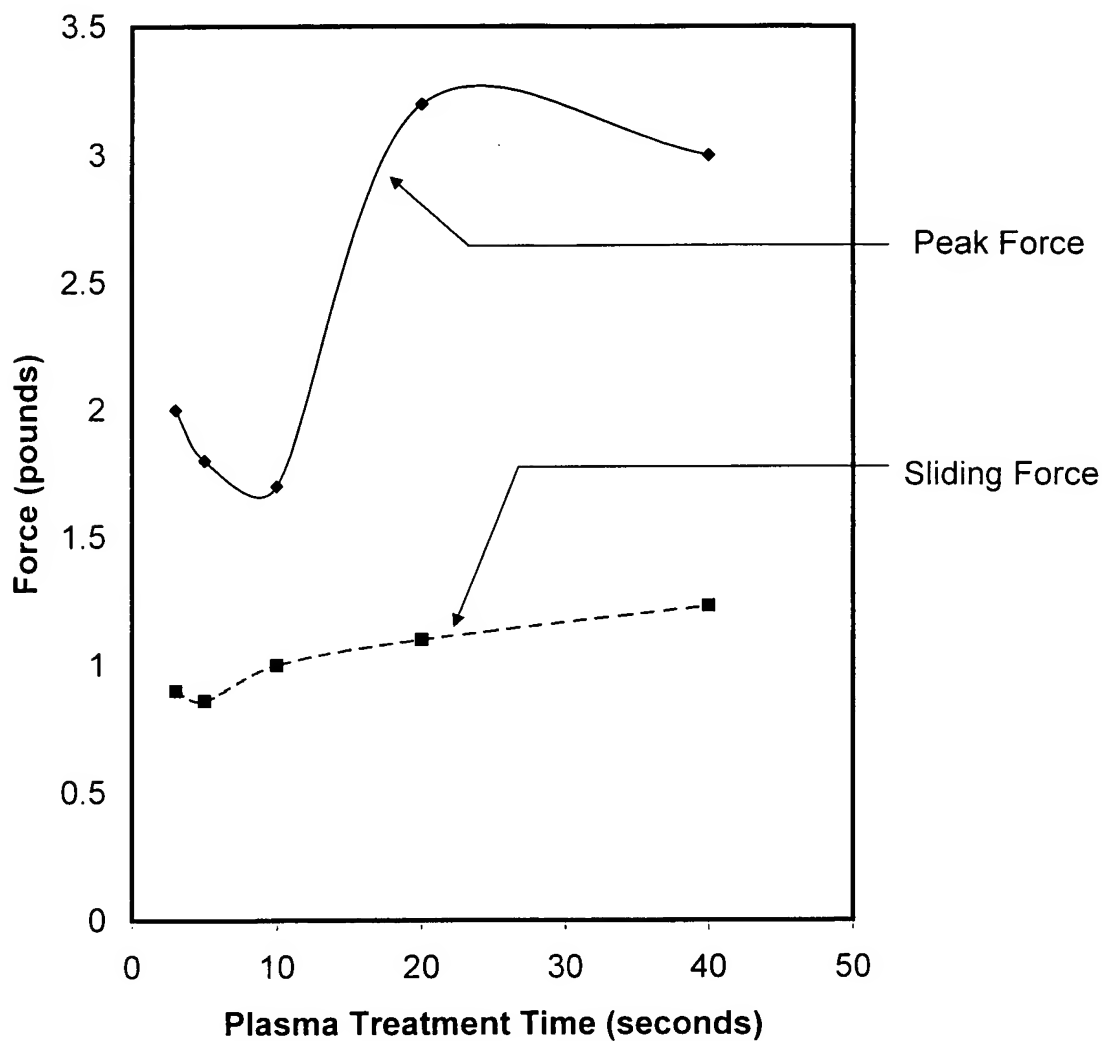


FIG. 6



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**10 cc Plastic Syringes, Silicone Oil  
Infusion Rate 3 cc/min**

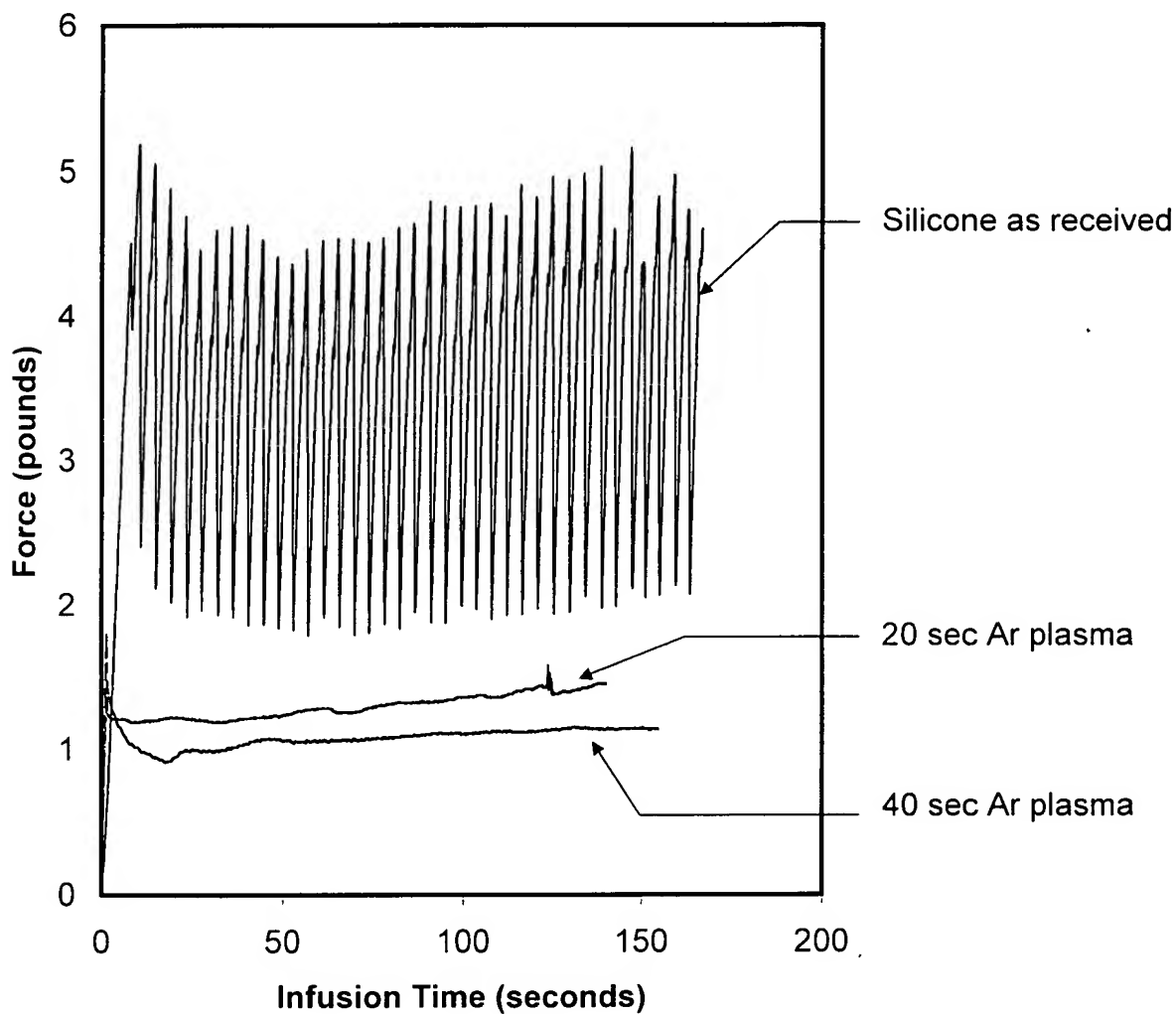


FIG. 7



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**Penetration Force for 25 Gauge Syringe Needles at 2 inches/min  
Perfluoropolyether Lubricant**

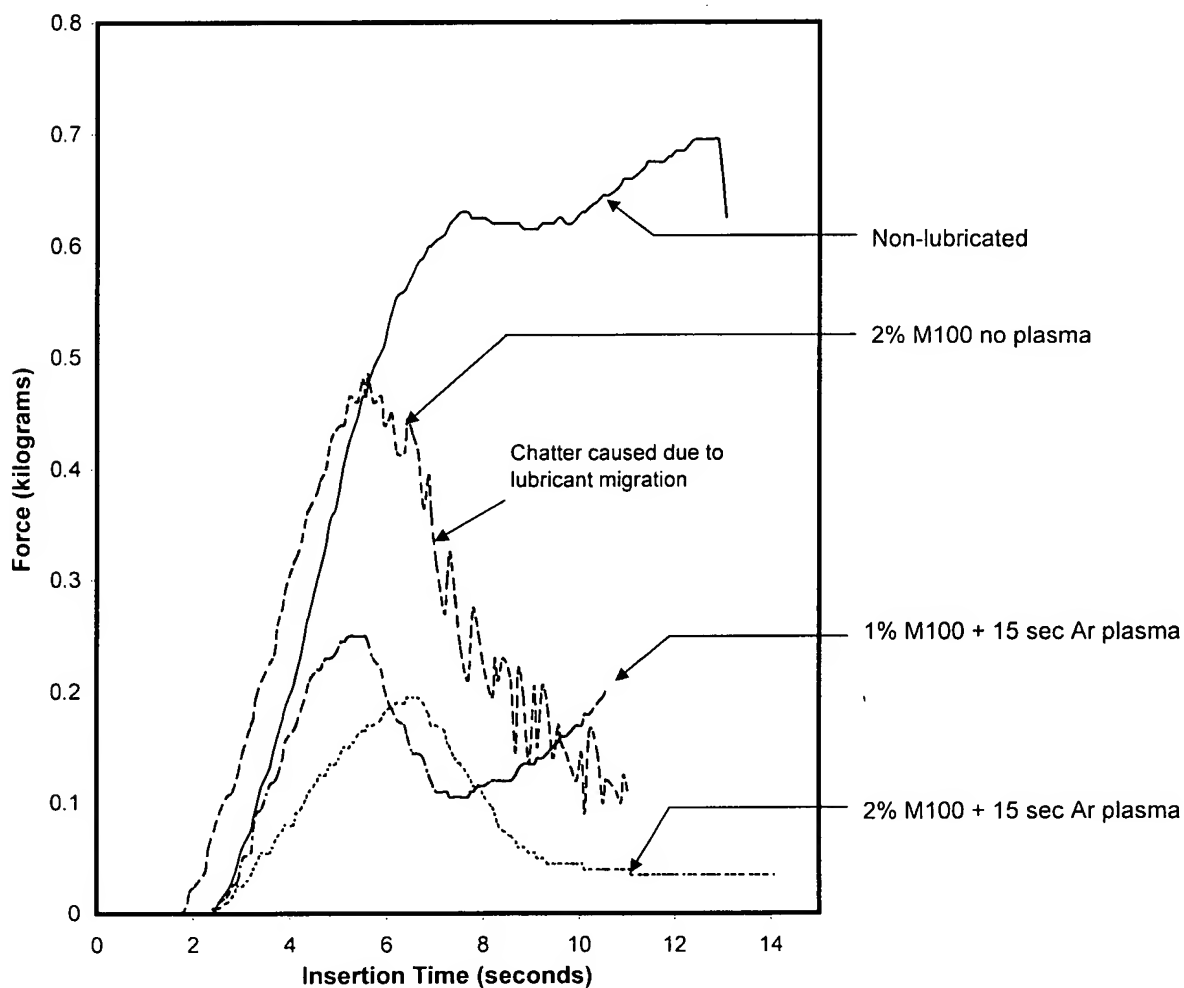


FIG. 8





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**Penetration Force for 21 Gauge Needles Into  
20 mm Stoppers at 2 inches/min**

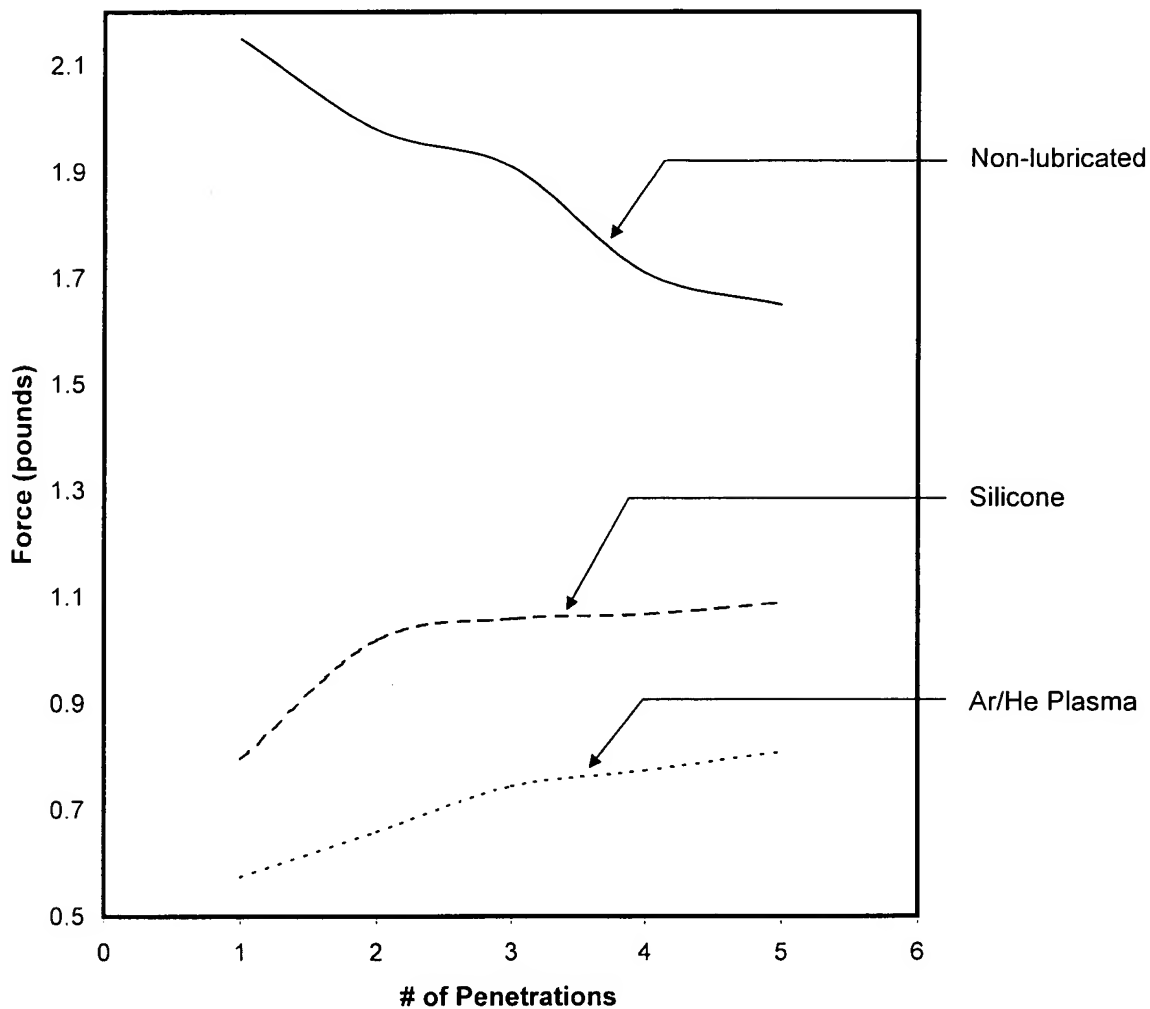


FIG. 9



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**10 cc Glass Syringes, Deionized Water, 23 Gauge Cannula  
3 Days Park Time, 0.5 cc/min**

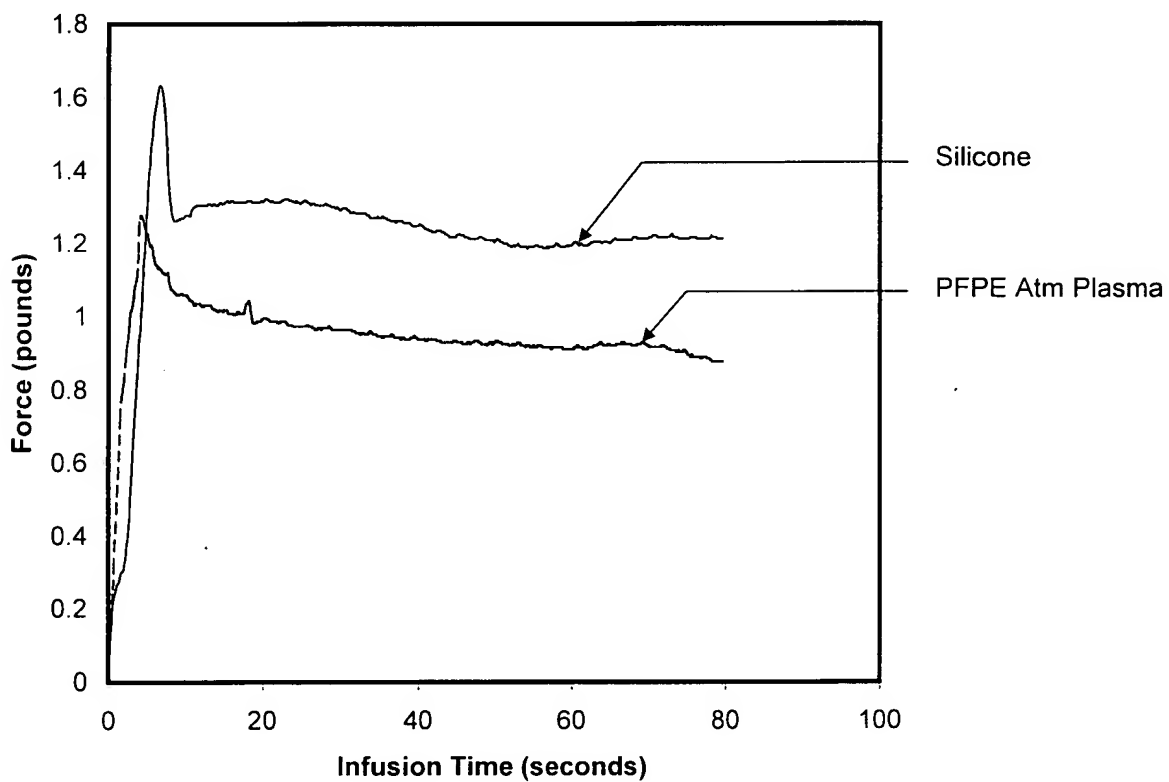


FIG. 10



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**Peak Force vs. Infusion Rate, 150 cc Contrast Media Syringes  
With PFPE Lubricant System  
Viscosity of Infusion Medium ~ 70 cP**

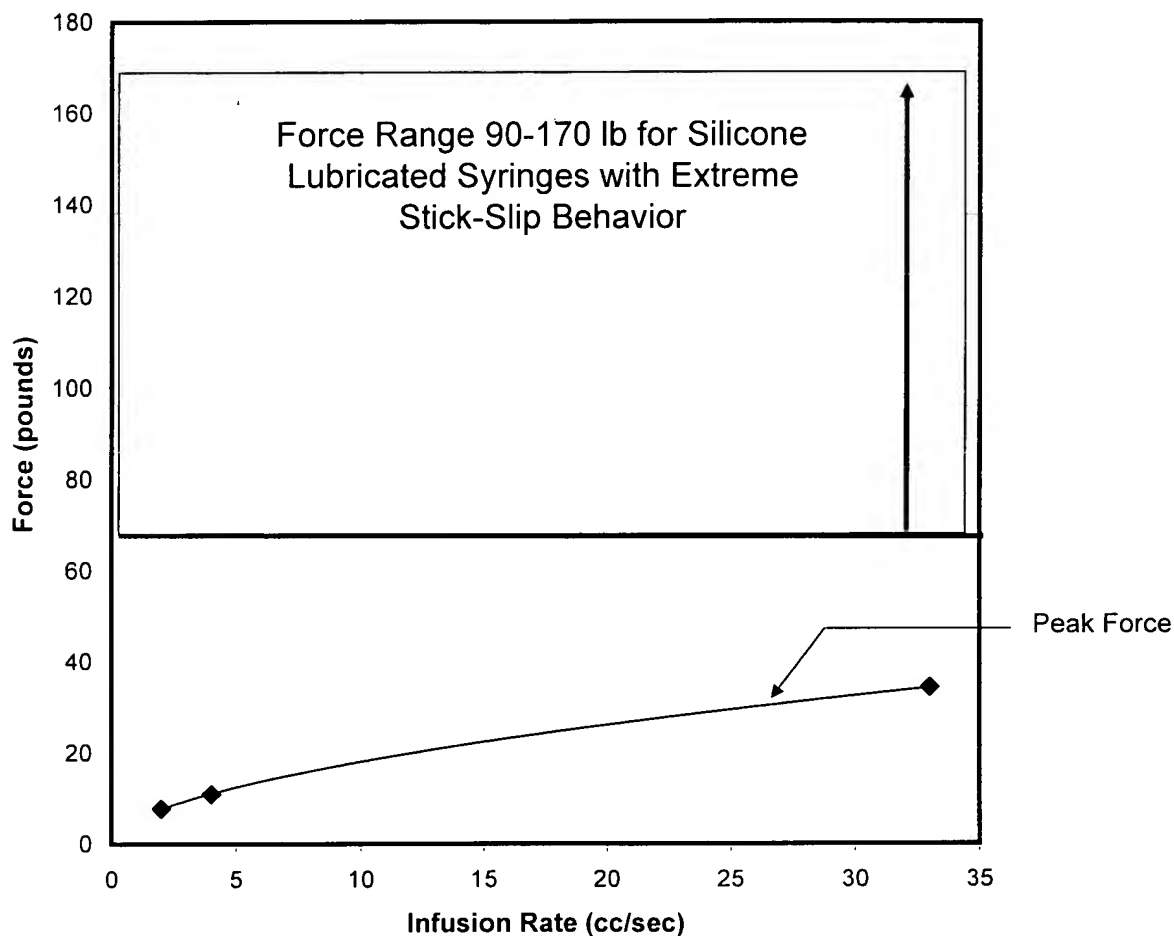


FIG. 11



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**10 cc Polypropylene Syringes, 7.5 wt.% Fomblin M100  
1 cc/min Infusion Rate of Deionized Water**

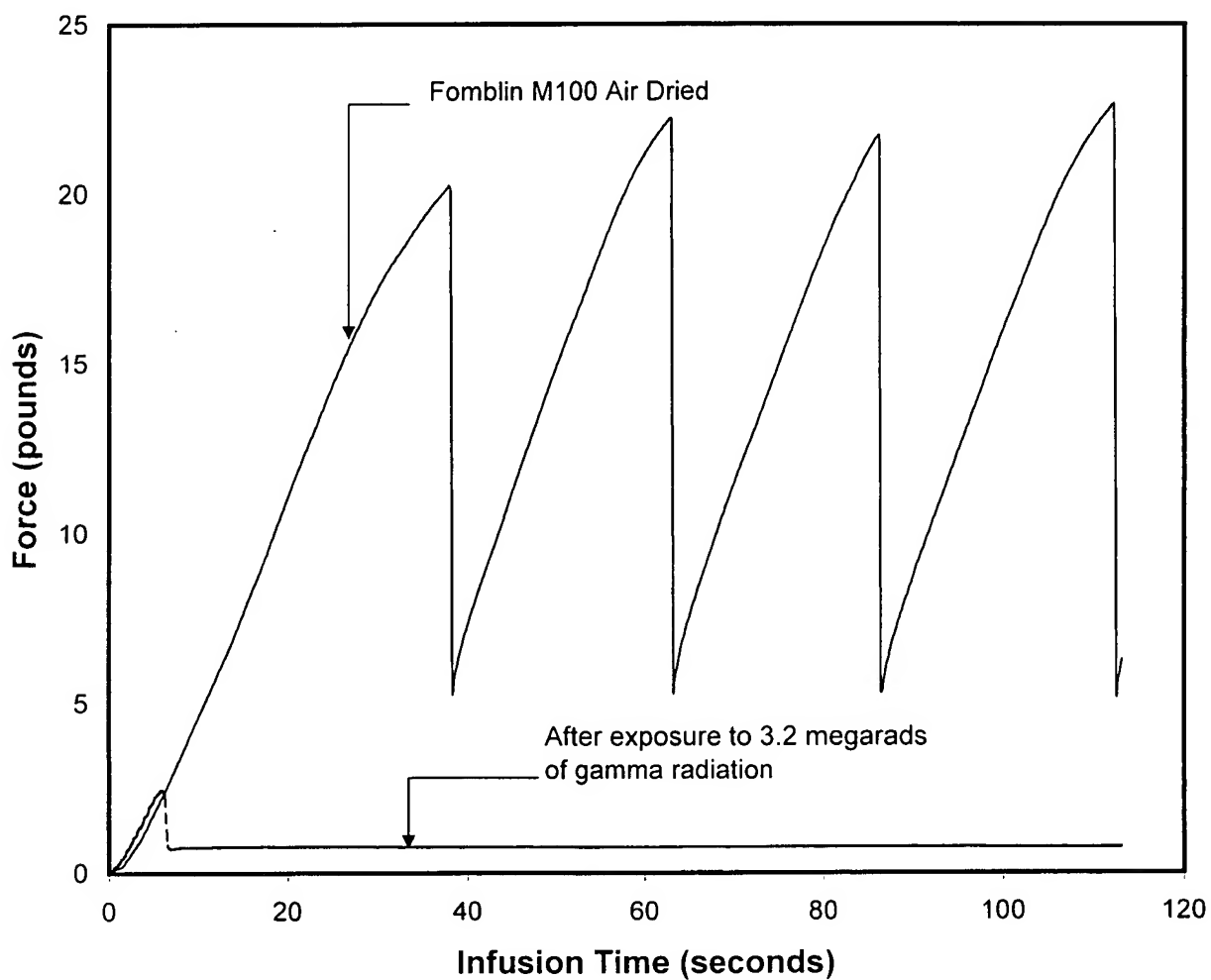


FIG. 12



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**10 cc Polypropylene Syringes, 7.5 wt.% Fomblin M100  
10 cc/min Infusion Rate of Deionized Water**

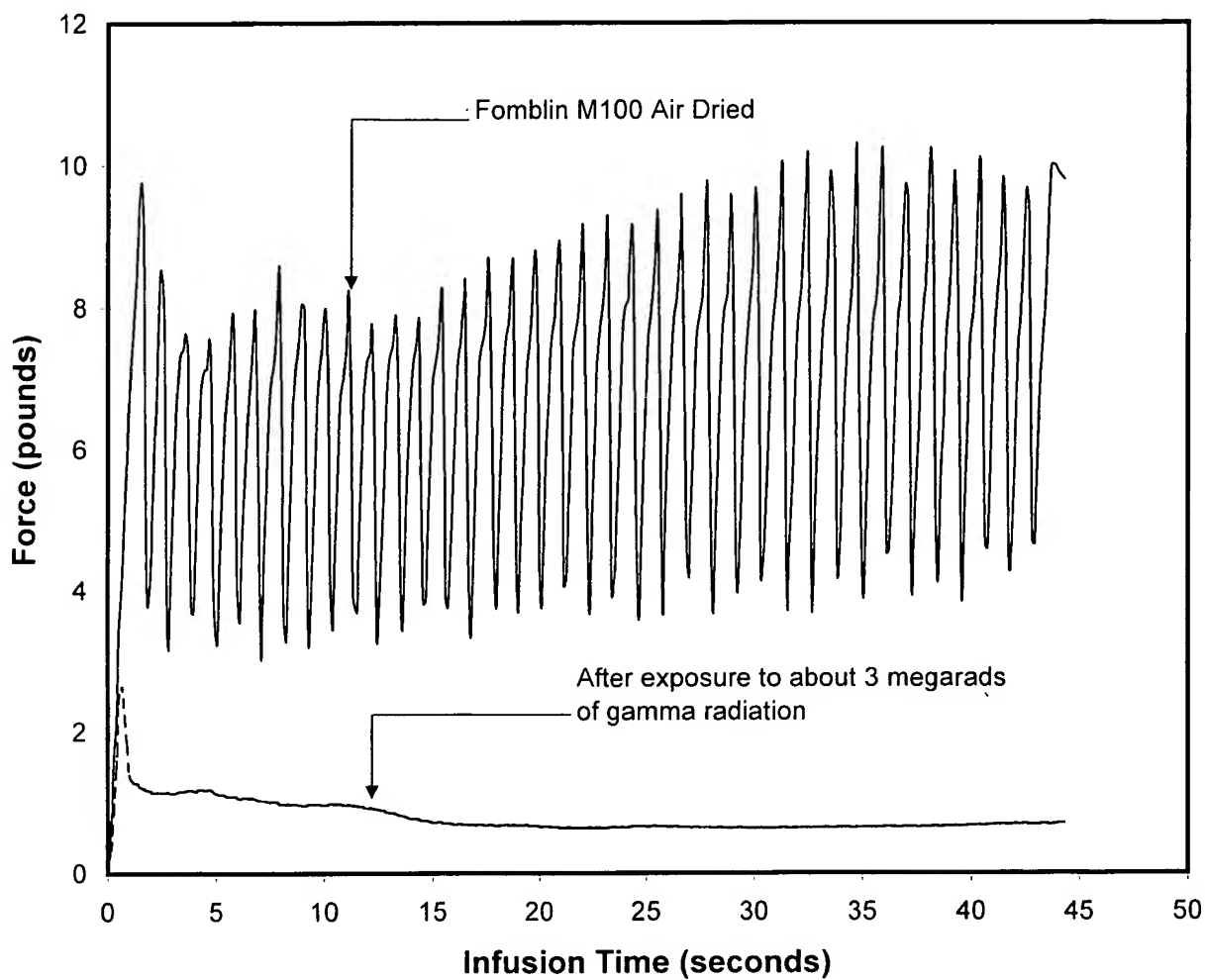


FIG. 13



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**1 cc Glass Syringes, 20 wt.% Fomblin M03  
1 cc/min Infusion Rate of Deionized Water**

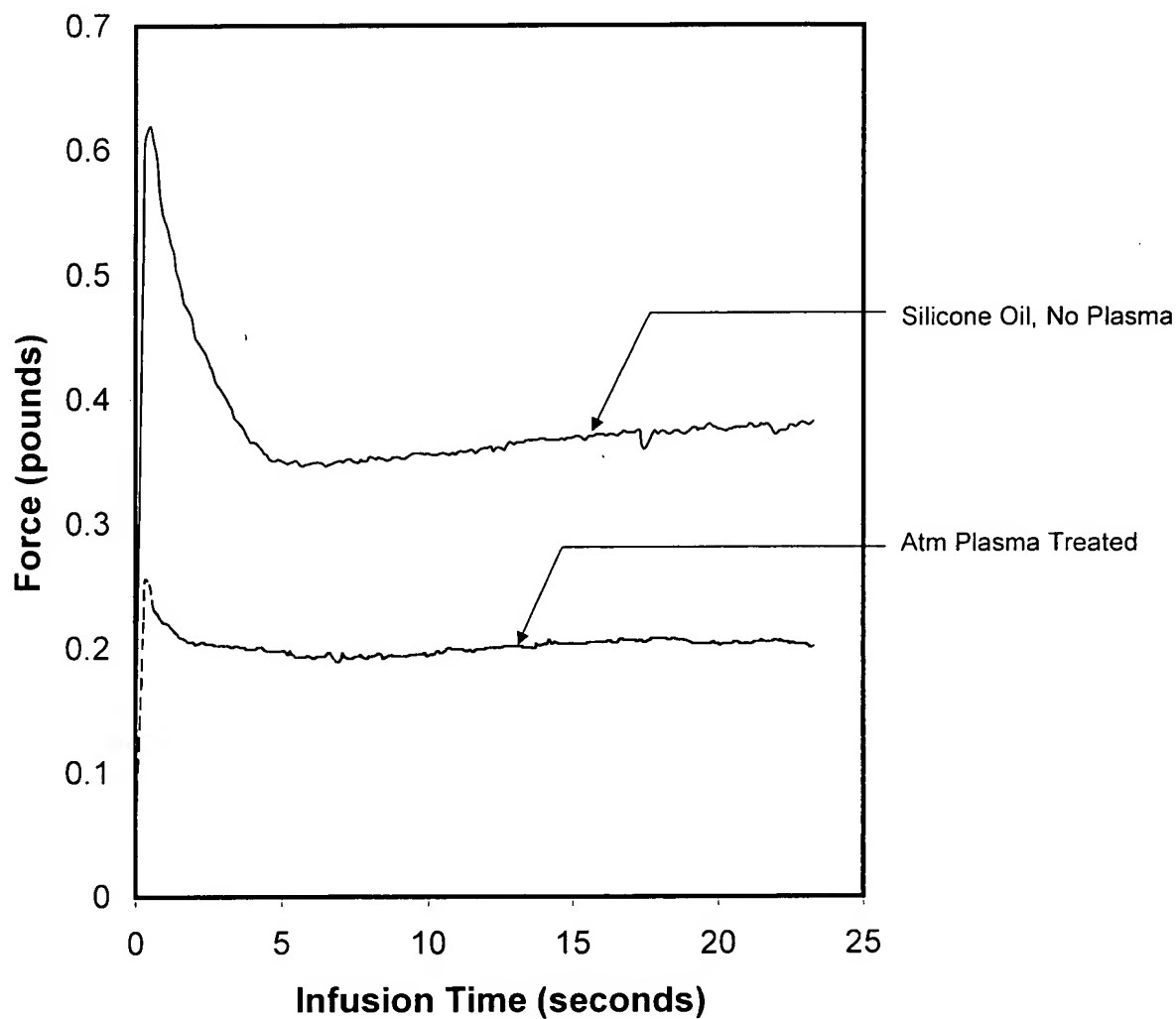


FIG. 14